

# angioLINK



Instructions for Use

#### IMPORTANT!

This booklet is designed to assist in using the EVS TM Vascular Closure System. It is not a reference to surgical techniques. To ensure proper use of this device and to prevent injury to patients, read all information contained in these instructions for use.

### CAUTION:

Federal law (USA) restricts this device to sale by or on the order of a physician.

FOR SINGLE USE ONLY; DO NOT RE-STERILIZE OR REUSE THIS DEVICE.

#### INDICATIONS FOR USE

The EVSTM Vascular Closure System is indicated for "Percutaneous Femoral Artery Approximation". The EVSTM Vascular Closure System is also indicated to reduce time to hemostasis at a femoral puncture site and to reduce time to ambulation for patients undergoing diagnostic or interventional catheterization procedures using 6 - 8 French procedural sheaths.

## CONTRAINDICATIONS:

There are no known contraindications for the EVS™ Vascular Closure System.

## DEVICE DESCRIPTION

The EVSTM Vascular Closure System is designed to deliver a titanium staple to close 6Fr. - 8Fr. artery puncture sites following diagnostic or interventional procedures.

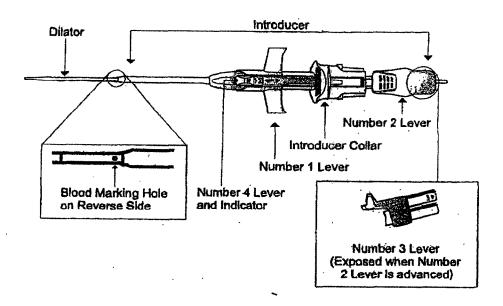
The staple material is radiopaque.

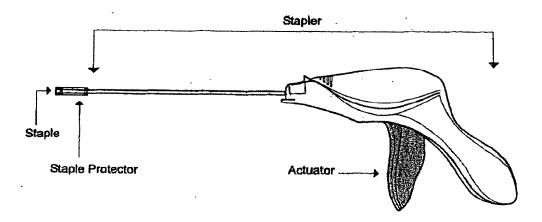
This device achieves hemostasis by mechanical means of approximating the arteriotomy end to end, and then delivering an extraluminal staple to effect the repair of the arteriotomy.

## HOW SUPPLIED

Includes one (1) introducer with integrated vessel stabilizers and dilator, compatible with .038 or smaller guide-wires.

Includes one (1) stapler with one pre-loaded staple.





### WARNINGS

- Do not use to close arteriotomies created through a vascular graft.
- Avoid use of the EVSTM Vascular Closure System if bacterial contamination of the sheath or surrounding tissue may have occurred.
- Do not use in ischemic or necrotic tissue because it could tear the vessel.

### **PRECAUTIONS**

- Do not use if package is damaged or any portion of the package has been previously opened.
- Do not use if the items in the package appear to be damaged or defective in any way.
- The EVS™ is to be used only by a trained, licensed physician or healthcare professional.
- If a patient has had a procedural sheath left in place for longer than 8 hours, consideration should be given to the use of prophylactic antibiotics prior to utilizing the EVS™ Vascular Closure System.
- When a venous sheath has been placed in the same leg as the arterial sheath, the venous sheath should be removed and hemostasis obtained prior to use of the EVSTM Vascular Closure System.
- The stapler handle levers must be squeezed together firmly as far as they will go or the staple
  may not be fully released from the device. Failure to squeeze the lever of the stapler completely
  can result in the misfiring of the staple and incomplete release of the vessel wall by the
  introducer.
- Inspect the access site to ensure proper application. If hemostasis is not achieved after application, apply compression for two (2) minutes.
- Use conventional compression methods in the event bleeding from the femoral access site
  persists after the use of the EVSTM Vascular Closure System.
- The location of the staple should be verified using flouroscopy, if in question.
- Do not re-sterilize or reuse this product; it is intended for a SINGLE USE ONLY.

Before considering discharge, assess the patient for the following clinical conditions:

- Conscious sedation
- Unstable cardiac status
- Hematoma at the closure site
- Hypotension

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- · Pain while walking
- Bleeding at the closure site
- Any co-morbid condition requiring observation

The presence of the above factors has generally led to deferral of discharge recommendations.

### SPECIAL PATIENT POPULATIONS

The safety and effectiveness of using the EVSTM Vascular Closure System has not been established in the following patient populations:

- Patients who are ≤ 18 or ≥ 80 years of age.
- Patients with pre-existing autoimmune disease.
- Patients with a history of bloeding disorder/platelet disorder such as Von Willebrand's disease or hemophilia.
- Presence of bilateral chronic ischemia identified by bilateral claudication and significant atherosclerotic disease at the site of, or immediately adjacent to the site of, sheath insertion as determined by screening femoral angiography.
- Patients undergoing thrombolytic therapy administered 24 hours prior to the catheterization procedure.
- Patients having previous femoral vascular surgery at the targeted site.
- Patients with a stent placed in the vicinity of the arterial puncture site.
- Patient with pre-existing arterio-venous fistula at targeted site.
- Patients with pre-existing non-cardiac systemic disease or terminal illness.
- Patients with pre-existing systemic or cutaneous infection.
- Patients with pre-existing ipsilateral groin hematoma.
- Patients that could not be accessed with a standard needle (i.e., Seldinger needle).
- Patients with failed single wall arterial puncture.
- Patients with bleeding around sheath prior to sheath removal.
- Patients with absent pedal pulses of either extremity.
- Patients with tortuous vascular anatomy with greater than 90° bends.
- Patients experiencing cardiogenic shock during or immediately post-procedure.
   Patients with procedural usage of Angiomax<sup>TM</sup> anticoagulant therapy.
- Patients undergoing catheterization procedures using < 6Fr. and > 8Fr. procedural sheaths.

## ARTERIAL PUNCTURE CONSIDERATIONS

Percutaneously puncture the anterior wall of the common femoral artery, superficial femoral artery, or profundus femoral artery optimizing placement below the inguinal ligament at an angle of approximately 45 degrees.

### ADVERSE EVENTS

The EVSTM Vascular Closure System was evaluated in a pivotal, prospective, multi-center, open-label, randomized study involving 362 patients. The EVSTM Vascular Closure System was compared to manual compression methods following interventional and diagnostic cardiac and peripheral vascular procedures with 8 Fr or smaller sheath sizes. Of the 362 randomized patients, 243 (67%) were randomized to the EVSTM Vascular Closure System and 119 (33%) were randomized to manual compression. Randomized EVSTM patients were approximately evenly divided between the procedure groups: 118 (49%) had interventional procedures and 125 (51%) had diagnostic procedures.

Patients who were randomized to the EVSTM device were asked to ambulate at pre-set time intervals after the diagnostic/interventional procedure was complete. EVSTM patients without IIb/HIa inhibitors were ambulated at 1 hour, while patients with IIb/IIIa inhibitors were ambulated at 2 hours.

The study was designed to detect a difference in the observed cumulative incidence of major complications at 30 days. Assuming a 3% cumulative major complication rate for manual compression, the study was designed to rule out a 5% higher major complication rate for the randomized EVSTM group. The sample size was adequate to rule out a 5% EVSTM disadvantage using a 95% upper confidence hourd.

The EVS<sup>TM</sup> device demonstrated eafety. By Day 30, a cumulative total of 1.(0.4%) major complication was reported for randomized patients who received EVS<sup>TM</sup> compared to 3 (2.5%) major complications in the manual compression patients.

Minor complication rates were similar between randomized EVS $^{TM}$  and manual compression patients (8.7% and 8.3%, respectively).

Table 1: Cumulative Anticipated Major and Minor Complications (ITT Population)

|   | Received BVS Received MC |                  |                        |                  |                           |
|---|--------------------------|------------------|------------------------|------------------|---------------------------|
|   | (N=243)                  |                  | (N=119)                |                  | Fisher's Exact            |
|   | No. (%) of Patients      | No. of<br>Events | No. (%) of<br>Patients | No. of<br>Events | Test P-value <sup>1</sup> |
| Combined major complications at Day 302                                       | 1 (0.4%)                 | 1                | 3 (2.5%)               | 3                | 0.1058                    |
| Retroperitoneal bleeding  | 1 (0.4%)                 | ı                | 1 (0.8%)               | ı                | 0.5500                    |
| Uncontrolled bleeding requiring transfusion                                   | 0 (0.0%)                 | 0                | 1 (0.8%)               | 1                | 0 3287                    |
| New ischemia in ipsilateral leg   | 0 (0.0%)                 | 0                | 1 (0.8%)               | 1                | 0.3287                    |
| Ultrasound guided compression for vascular surgery                            | 0 (0.0%)                 | 0                | 0 (0.0%)               | 0                |                           |
| Vascular Surgery  | 0 (0.0%)                 | 0                | 0 (0.0%)               | 0                |                           |
| Intraluminal staple delivery requiring surgical intervention                  | 0 (0.0%)                 | 0                | 0 (0.0%)               | 0                |                           |
| Groin related infection requiring IV antibiotics or extended hospitalization  | 0 (0.0%)                 | 0                | 0 (0.0%)               | 0                |                           |
| New significant neuropathy in ipsilateral lower extremity                     | 0 (0.0%)                 | 0                | 0 (0.0%)               | 0                |                           |
| Total Vessel Occlusion  | 0 (0.0%)                 | 0                | 0 (0.0%)               | 0                |                           |
| Combined minor complications at Day 30  | 22 (9.1%)                | 31               | 9 (7.6%)               | 13               | 0.6941                    |
| Uncontrolled bleeding not requiring transfusion                               | 3 (1.2%)                 | 3                | 3 (2.5%)               | 3                | 0,3992                    |
| Hematoma ≥6cm   | 9 (3.7%)                 | 11               | 4 (3.4%)               | 5                | 1.0000                    |
| Ecchymosis >3mm   | 11 (4.5%)                | 11               | 5 (4.2%)               | 5                | 1,0000                    |
| luvaluminal staple delivery not requiring surgical intervention               | 1 (0.4%)                 | ı                | 0 (0,0%)               | 0                | 1 0000                    |
| Pseudoaneurysm not requiring treatment  | 3 (1.2%)                 | 3                | 0 (0.0%)               | 0                | 0.5538                    |
| Pseudoaneurysm requiring thrombin injection                                   | 2 (0.8%)                 | 2                | 0 (0.0%)               | 0                | 1.0000                    |
| Pedal pulse diminished by ≥ 2 grades  | 0 (0.0%)                 | 0                | 0 (0.0%)               | 0                |                           |
| Ipsilateral lower extremity arterial emboli                                   | 0 (0.0%)                 | 0                | 0 (0.0%)               | 0                |                           |
| l'psilateral desp vein thrombosis   | 0 (0.0%)                 | 0                | 0 (0.0%)               | 0                |                           |
| Access sile-related vessel laceration   | 0 (0.0%)                 | 0                | 0 (0.0%)               | 0                |                           |
| Access site wound debiscence  | 0 (0.0%)                 | 0                | 0 (0.0%)               | a                |                           |
| Localizes access are infection treated with intramuscular or oral antibiotics | 0 (0.0%)                 | 0                | 0 (0.0%)               | 0                |                           |
| Arteriovenous fistula   | 0 (0.0%)                 | 0                | 0 (0.0%)               | 0                |                           |

Based on the comparison of the percentage of patients who experienced major or minor complications between the EVS and MC groups.
 The number of patients with a major complication or a specific type of major complication is equal to the number of major complication events. Bach patient only experienced a given major complication once.

## CLINICAL TRIAL

The effectiveness of the EVSTA Vascular Closure System was evaluated using two primary endpoints: time to hemostasis and time to ambulation. Time to hemostasis was defined as the time from staple delivery to the time total cessation of bleeding (including any oozing) was achieved. Time to ambulation was defined as the time from staple delivery to the time the patient stands at bedside and walks no less than 20 feet in total distance.

Use of EVSTM significantly reduced time to hemostasis and ambulation. The mean time to hemostasis was 4.4 minutes for randomized EVSTM patients, compared to 20.7 minutes for manual compression patients. The mean time to ambulation was 2.4 hours for randomized EVSTM patients compared to 6.0 hours for MC nationts.

|   | Randomized EVS<br>(N=243) | Randomized MC<br>(N=119) | P-value                                |
|---|---------------------------|--------------------------|--|
| Time to hemostasis (minutes)                              |                           |                          | <0.0001                                |
| N   | 222                       | 116                      |  |
| Mean (SD)   | 4.4 (4.1)                 | 20.7 (8.0)               |  |
| Median  | 3.0                       | 20.0                     |  |
| Min-Max Range   | 0.0 – 25.0                | 2.0 - 62.0               |  |
| Time to ambulation (hours)                                |                           |                          | <0.0001 <sup>1</sup>                   |
| N   | 214                       | 103                      |  |
| Mean (SD)   | 2.4 (3.3)                 | 6.0 (5.2)                |  |
| Median  | 1.3                       | 4.6                      |  |
| Min-Max Range   | 0.8 - 24.2                | 2.9 - 44.5               | ······································ |
| Time to Eligible Hospital Discharge (hours)               |                           |                          | 0.5382'                                |
| N   | 203                       | 98                       |  |
| Mean (SD)   | 20.1 (31.1)               | 18.1 (25 4)              |  |
| Median  | 8.5                       | 6.6                      |  |
| Min-Max Range   | 1.6 ~ 271.8               | 0.7 - 141.5              |  |
| Time to Actual Hospital Discharge (hours)                 |                           |                          | 0.20531                                |
| И   | 225                       | 110                      | ************************************** |
| Mean (SD)   | 23.0 (35.8)               | 19.0 (21.3)              |  |
| Median  | 13.6                      | 9.5                      |  |
| Min-Max Range   | 1.3 – 311.0               | 0.7 - 146.0              |  |
| Time from end of procedure to device deployment (minutes) |                           |                          | <0.00014                               |
| И   | 243                       | 118                      |  |

Tuble 2: Descriptive Statistics for Effectiveness (ITT Population)

7.9 (21.4)

6.0

0.0 - 330.0

243

13(22)

1.0

76.7 (110.5)

22.5

0.0 - 723.0

118

02(09)

0.0 0.0 - 6.0 <0.00011

Mean (SD)

Min-Max Range

deployment (minutes)

Min-Max Range

Mean (SD)

Median

Time from sheath removal to device

Median

<sup>-2.0 - 16.0</sup> p-value based on an unpaired t-test comparing randomized EVS and MC subjects.

Table 3: Descriptive Statistics for Effectiveness in Subjects Undergoing Diagnostic and Interventional Procedures (ITT Population)

|   | Diagnostic Randomized EVS (N=125) | Diagnostic<br>Randomized<br>MC (N=63) | P-value  | Interventional<br>Randomized EVS<br>(N=118) | Interventional Randomized MC (N=56) | P-value |
|---|-----------------------------------|---------------------------------------|----------|---|-------------------------------------|---------|
| Time to hemostasis<br>(minutes)                   |                                   |                                       | <0.0001  |   |                                     | <0.0001 |
| N   | 116                               | 63                                    |          | 106   | 53                                  |         |
| Mean (SD)   | 3.3 (2.6)                         | 19.3 (5.7)                            |          | 5.5 (5.1)                                   | 22.3 (9.9)                          |         |
| Median  | 2.5                               | 20.0                                  |          | 4.0   | 20.0                                |         |
| Min-Max Range                                     | 0.0 - 15.0                        | 2.0 - 43.0                            |          | 0.0 - 25.0                                  | 2.0 - 62.0                          |         |
| Time to ambulation (hours)                        |                                   |                                       | <0.00011 |   |                                     | 0.00041 |
| N   | 112                               | 55                                    |          | 102   | 48                                  |         |
| Mean (SD)   | 1.5 (1.1)                         | 4.7 (2.2)                             |          | 3.4 (4.5)                                   | 7.6 (7.0)                           |         |
| Median  | 1.2                               | 4.3                                   |          | 2.0   | 5.6                                 | 1       |
| Min-Max Range                                     | . 0.8 ~ 7.6                       | 2.9 - 20.0                            |          | 0.9 - 24.2                                  | 3.4 - 44.5                          |         |
| Time to Eligible<br>Hospital Discharge<br>(hours) |                                   |                                       | 0.85611  |   |                                     | 0.2137  |
| N   | 102                               | 57                                    |          | 101   | 41                                  |         |
| Mean (SD)   | 15.4 (36.4)                       | 16.5 (29.6)                           |          | 24.9 (23.8)                                 | 20.3 (18.0)                         |         |
| Median  | 4.5                               | 5.8                                   |          | 19.7  | 17.0                                |         |
| Min-Max Range                                     | 1.1 - 271.8                       | 0.7 - 141.5                           |          | 1,4 - 147.3                                 | 1.5 – 79.1                          | l       |
| Time to Actual<br>Hospital Discharge<br>(hours)   |                                   |                                       | 0.45871  |   | · -                                 | 0.22321 |
| N   | 113                               | 58                                    |          | 112   | 52                                  |         |
| Mean (SD)   | 19.9 (46.1)                       | 15.9 (24.9)                           |          | 26.2 (20.4)                                 | 22.6 (15.8)                         |         |
| Median  | 5.6                               | 6.6                                   |          | 21.8  | 20.9                                |         |
| Min-Max Range                                     | 1.3 - 311.0                       | 0.7 – 146.0                           |          | 2.1 - 119.4                                 | 4.7 – 74.7                          |         |

p-value based on an unpaired t-test comparing randomized EVS and MC subjects.

| ,   | Post-Procedure         | Estimates of Patients Achieving Randomized EVS (N=243) |        | Randomized MC (N=119)        |        |                     |  |
|---|------------------------|--|--------|------------------------------|--------|---------------------|--|
| Endpoint                                    | Endpoint Time Interval |  | %      | No.<br>Achieving<br>Endpoint | %      | Log Rank<br>P-value |  |
| Time to hemostas                            | is (minutes)           |  | •      | F                            | •      | <0.0001             |  |
|   | ≤ 1 min                | 40   | 16.94% | 0                            | 0.00%  |                     |  |
|   | ≤5 min                 | 167  | 71.55% | 2                            | 1,69%  |                     |  |
|   | ≤10 mia                | 208  | 89,65% | 7                            | 5.93%  |                     |  |
|   | ≤ 15 min               | 216  | 93.57% | 22                           | 18.64% |                     |  |
|   | ≤ 20 min               | 218  | 94.70% | 89                           | 75.42% |                     |  |
| Time to ambulation                          | ın (hours) .           |  |        |                              |        | <0.0001             |  |
|   | ≤ lhr                  | 35   | 14.77% | 0                            | 0%     | † <b>-</b>          |  |
|   | ≤2 hours               | 156  | 66.30% | 0                            | 0%     |                     |  |
|   | ≤3 hours               | 184  | 78.71% | 1                            | 0.89%  | 1                   |  |
|   | ≤4 hours               | 194  | 83.24% | 20                           | 17,70% |                     |  |
| •   | ≤ 5 hours              | 197  | 84.63% | 68                           | 60.18% | <u> </u>            |  |
| Time to eligible hospital discharge (hours) |                        |  |        |                              |        |                     |  |
|   | ≤ Ihr                  | 0  | 0%     | 1                            | 0.85%  | 1                   |  |
|   | ≤2 hours               | 16   | 6.78%  | 2                            | 1.69%  |                     |  |
|   | ≤3 hours ·             | 26   | 11.01% | 4                            | 3.39%  |                     |  |
|   | ≤4 hours               | 50   | 21.23% | 8                            | 6.78%  |                     |  |
| •   | ≤ 5 hours              | 67   | 28.53% | 29                           | 25:23条 |                     |  |
|   | ≤ 10 hours             | 105  | 45.10% | 56                           | 49.27% |                     |  |
|   | ≤24 hours              | 161  | 71.06% | 81                           | 74.01% |                     |  |
| Time to actual hos                          | pital discharge (hou   | rs)  |        |                              |        | 0.7301              |  |
|   | ≤ 1hr                  | o  | 0%     | 1                            | 0.84%  |                     |  |
|   | ≤2 hours               | 8  | 3.33%  | 1                            | 0.84%  |                     |  |
|   | ≤ 3 hows               | 19   | 7.93%  | 1                            | 0.84%  |                     |  |
|   | ≤4 hours               | 35   | 14.66% | 2                            | 1.69%  |                     |  |
|   | ≤ 5 hows               | 58   | 24.33% | 19                           | 16.46% |                     |  |
|   | ≤ 10 hours             | 109  | 45.77% | 56                           | 48,66% |                     |  |
|   | ≤ 24 hours             | 162  | 68.86% | 85                           | 74.68% | <b>T</b>            |  |

Rates of device failure and operator error were low. There were 2 (0.8%) randomized EVSTM patients who experienced a device failure and 7 (2.9%) randomized EVSTM patients who experienced an operator error. The procedural success rate (the percentage of patients achieving homostasis within 20 minutes minus the percentage with any major complications) was significantly higher in randomized EVSTM patients (94.4%) compared to manual compression (72.9%). EVSTM could be readily deployed without evidence of an investigator learning curve. Satisfactory puncture site healing at 30 days was achieved by 98.8% of randomized EVSTM patients and 96.6% of manual compression patients.

The majority of investigators reported that the use of the EVS<sup>TM</sup> was easier or as easy to use as other marketed devices, and that they had no difficulty or insignificant difficulty with the device set-up, operation, deployment, and function.

| Table 5: | Overall | Performance | of Device for | all Sites | (ITT Population) |
|----------|---------|-------------|---------------|-----------|------------------|
|----------|---------|-------------|---------------|-----------|------------------|

| ·  | Randomized EVS<br>(N=243) | Randomized MC<br>(N=119) | p-value <sup>1</sup> |
|--|---------------------------|--------------------------|----------------------|
| Procedural success   |                           |                          | 0.0001               |
| Life-table estimate of hemostasis<br>within 20 minutes (number of<br>subjects] | 94.7% [218]               | 75.4% [89]               |                      |
| Minus major complication rate [number of subjects]                             | (0.4%) [1]                | (2.5%) [3]               |                      |
| Procedural success rate <sup>2</sup>   | 94.3%                     | 72.9%                    |                      |
| Satisfactory puncture site healing (Day 30)                                    | ·                         |                          | 0.3971               |
| Yes ·  | 240 (98.8%)               | 115 (96.6%)              |                      |
| No   | 3 (1.2%)                  | 3 (2.5%)                 |                      |
| Device failure   |                           |                          | 1.0000               |
| Yes  | 2 (0.8%)                  | 0 (0.0%)                 |                      |
| No   | 241 (99.2%)               | 119 (100,0%)             |                      |
| Operator error   |                           |                          | 0.1008               |
| Yes  | 7 (2.9%)                  | 0 (0.0%)                 |                      |
| No   | 236 (97.1%)               | 119 (100.0%)             |                      |

<sup>&</sup>lt;sup>1</sup> p-value based on Fisher's exact test comparing randomized EVS and MC subjects.

<sup>2</sup>The procedural success rate was defined as the percentage of subjects in the ITT population achieving hemostasis within 20 minutes minus the percentage with any major complications.

Table 6: ACT level prior to Sheath Removal (ITT Population)

|   | Randomizad   | Randomizad   | Randomized        | Rendomized           | Randomized            | Rendomized           |
|---|--------------|--------------|-------------------|----------------------|-----------------------|----------------------|
|   | e\1          | МС           | E\S<br>Diagnostic | MC                   | EVE<br>Interventional | MC<br>Interventional |
|   | (N=243)      | .(34=119)    | (N=125)           | Diagnostic<br>(N=63) | (N=118)               | (N=56)               |
| ACI level (seconds)<br>prior to sheeth<br>removel |              |              |                   |                      |                       |                      |
| N   | 241          | 115          | 123               | 61                   | 118                   | 54                   |
| Moun (SD)   | 182.7 (65.2) | 1428 (340)   | 137.0 (43.0)      | 126.7 (35.0)         | 230,4 (47.8)          | 161.1 (21.3)         |
| Median  | 179.0        | 154.0        | 129.0             | 123.0                | 2372.0                | 1620                 |
| Min-Max Range                                     | 63.0-427.0   | 42.0 - 229.0 | 63.0 - 311.0      | 42.0 180.0           | 65.0 - 427.0          | 103.0 - 229.0        |

Before the study, 49.4% of EVSTM patients (120/243) received anti-coagulant therapy, versus 39.5% of manual compression patients (47/119), while during the study 93.4% (227/243) of EVSTM patients received anti-coagulant therapy, compared to 90.8% of manual compression patients (108/119).

In addition to a difference between the treatment groups in the percentages of randomized patients who received anti-congulant therapy, there was a notable difference in mean ACT levels at the time the procedurel sheath was removed. Randomized EVSTM patients had a mean ACT at sheath removal of 182.7 seconds compared to 142.8 seconds for the manual compression group. For randomized subjects undergoing interventional procedures, the difference was more dramatic: interventional randomized EVSTM subjects had a mean ACT level of 230.4 seconds prior to sheath removal as compared to 161.1 seconds for MC subjects. ACT levels were higher at the time of sheath removal for EVSTM patients because the MC patients had delayed sheath removal while waiting for ACT levels to drop to clinically safe levels.

## ANGIOLINK EVSTM VASCULAR CLOSURE SYSTEM INSERTION PROCEDURE

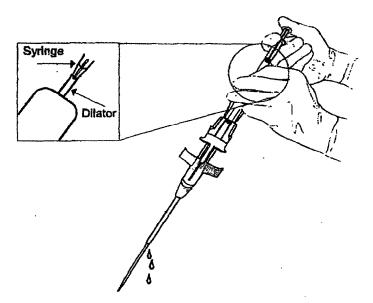
The EVS™ Vascular Clasure System is to be used only by a licensed physician or other healthcare professional authorized by, or under the direction of such physician possessing adequate instruction in the use of the device.

Observe sterile technique at all times when using the EVSTM Vascular Closure System.

Follow physician orders regarding patient ambulation and discharge.

Repuncture at the site can be performed immediately after initial repair, if so indicated.

Use a syringe to flush the blood marking hole with intravenous compatible fluid.



 Create a skin nick to reduce friction at the skin level. Orient the introducer assembly so that the NUMBER 1 on the device is facing upward.

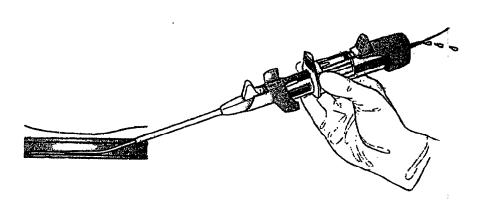
While reating the right hand on the patient's thigh, track slowly over a .038 or smaller guide wire using a low single of approach. Gentle twisting as you track down helps achieve pulsatile blood marking. Avoid excessive forward pressure.

When blood marking is first achieved, the device may not be at its optimal location; depending on the patient's anatomy, the device may be pushed back slightly when forward pressure is released, causing optimal location to be last.

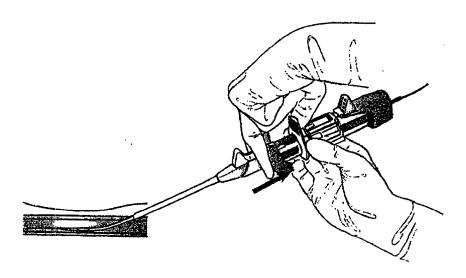
Gently twist and advance the introducer until blood marking is achieved and release forward pressure. If blood marking is lost or diminished upon releasing forward pressure, gently advance the introducer forward again until blood marking is re-achieved. Repeat this process until blood marking is maintained upon releasing forward pressure on the device.

 When pulsitile blood marking has been achieved and maintained, hold the introducer stable with moderate forward pressure.

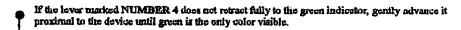
Do not allow the introducer to move forward or backward from this location until vessel stabilizers are fully retracted (step 6).

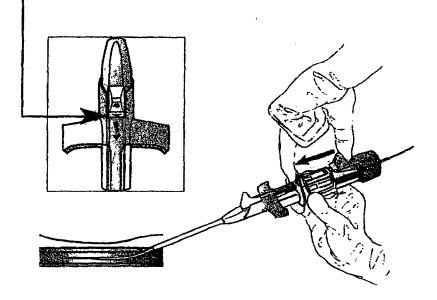


Pull back lever NUMBER 1 to prepare the vessel stabilizers for deployment.

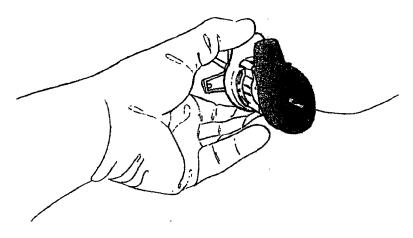


5. While maintaining the location of the introducer with moderate forward pressure, use your left hand to advance the NUMBER 2 slide forward completely, until an audible click is heard. Remove left hand from the device allowing the new exposed number 3 lever to spring back from the introducer body.





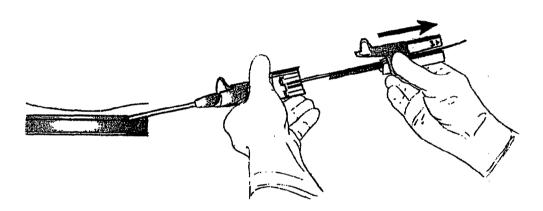
 Maintain the introducer position while you switch control of the device from your right hand to your left hand. Hold the collar of the introducer as illustrated below.



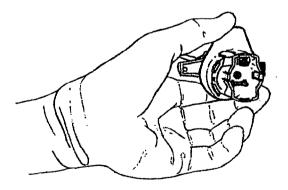
 Maintain the introducer position. Remove the component marked with a NUMBER 3 along with the guidewire.

If the NUMBER 3 component cannot be removed, keep the guidewire in place. Firmly pull on the NUMBER 1 lever until a solid green block is clearly visible on the NUMBER 4 indicator. Remove the device and exercise one of the following options:

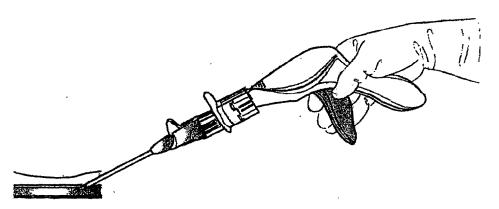
- 1. Truck a new device over the wire and deploy as described in steps 1-7. Go to step 8.
- 2. Use conventional compression methods to achieve hemostasis.



8. Locate the insertion point for the stapler.



 Insert the stapler into the introducer until an audible click confirms that the two components are locked.

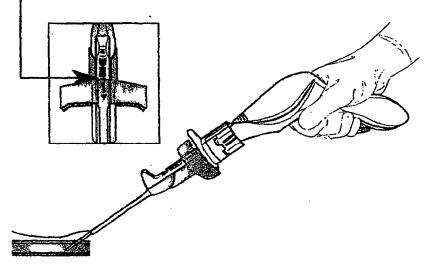


10. Raise the angle of the device to approximately 45 degrees or until resistance is felt from the surrounding tiestelskin. Squeeze the trigger completely. Ensure that you see green on the NUMBER 4 indicator, signifying it is safe to remove the entire unit.

If green is not seen on the NUMBER 4 indicator, susure that the trigger is fully activated, and push the NUMBER 4 lever distal to the instrument until green is fully visible.

Remove the device and discard.

Hold the groin for 2 minutes to ensure hemostasis has been achieved, and to control oozing from the subsutaneous tract.



### STORAGE, PACKAGING AND DISPOSAL

The EVS <sup>7M</sup> Vascular Closure System contains materials that are degraded by heat and moisture; therefore, the device must not be re-sterilized, and should not be stored at temperatures above 54° Celsius (130°F).

Sterile in unopened and undamaged package.

Dispose of the contaminated device, components, and/or packaging materials using standard hospital procedures and universally accepted practices for bio-bazardous wastes.

#### PRODUCT INFORMATION DISCLOSURE

Angiolink Corporation (Angiolink) has exercised reasonable care in the manufacture of this device. Angiolink excludes all warranties, whether corpressed or implied by operation of law or otherwise, including, but not limited to, any implied warranties of merchantability or fitness, since handling and storage of this device as well as factors relating to the patient, the diagnosis, treatment, surgical procedures, and other materies beyond Angiolink's control directly affect this device and the results obtained from its use. Angiolink shall not be liable for any incidental or consequential loss, damage, or expense, directly or indirectly arising from the use of this device. Angiolink neither assumes, nor subnorizes any other person to assume for it, any other or additional liability or responsibility in connection with this device. Angiolink assumes no liability for device use outside of approved labeling.

The EVS To Vascular Closure System is a Trademark of Angiolink Corporation (Taunton, MA 02780 USA).

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